

## ABSTRACT

### FLUORO-CHEMICAL COMPOSITION COMPRISING A FLUORO-CHEMICAL OLIGOMERIC SILANE FOR RENDERING SUBSTRATES OIL AND WATER REPELLENT

A fluorochemical composition comprising a major amount of organic solvent and 0.05% by weight to 5% by weight of fluorochemical oligomer dispersed or dissolved in said organic solvent and said fluorochemical oligomer being represented by the general formula:

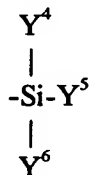


wherein X represents the residue of an initiator or hydrogen;

$M^f$  represents units derived from fluorinated monomers;

$M^h$  represents units derived from a non-fluorinated monomers;

$M^a$  represents units having a silyl group represented by the formula:



wherein each of  $Y^4$ ,  $Y^5$  and  $Y^6$  independently represents an alkyl group, an aryl group or a hydrolyzable group;

G is a monovalent organic group comprising the residue of a chain transfer agent;

n represents a value of 1 to 100;

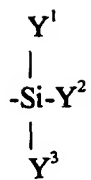
m represents a value of 0 to 100;

r represents a value of 0 to 100;

and  $n+m+r$  is at least 2;

with the proviso that at least one of the following conditions is fulfilled: (a) G is a

monovalent organic group that contains a silyl group of the formula:



wherein  $Y^1$ ,  $Y^2$  and  $Y^3$  each independently represents an alkyl group, an aryl group or a hydrolyzable group with at least one of  $Y^1$ ,  $Y^2$  and  $Y^3$  representing a hydrolyzable group; or (b)  $r$  is at least 1 and at least one of  $Y^4$ ,  $Y^5$  and  $Y^6$  represents a hydrolyzable group.

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